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DEPARTMENT OF HEALTH AND ENVIRONMENTAL SCIENCES

SOLID WASTE MANAGEMENT BUREAU

TED SCHWINDEN, GOVERNOR

Room A201
COGSWELL BUILDING

STATE OF MONTANA

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September 18, 1981

Board of County Commissioners, Park County Courthouse, Livingston, MT 59047
Bob Childers, Co. Sanitarian, 414 E. Callender, Livingston, MT
Howard Queen, Chairman, Park Co. Refuse Disposal Dist., Clyde Park, MT 59018
Jerome Tacke, Dept. of Public Works, 414 E. Callender, Livingston, MT
Ernie Faure, Mayor, City of Livingston, 414 E. Callender, Livingston, MT
Mike Ross, City-County Planner, 414 E. Callender, Livingston, MT
Burlington Northern Property Management Div., 176 E. Fifth St., St. Paul, MN 55101
Environmental Quality Council, 1209 8th Avenue, Helena, MT
Tom Ellerhoff, Environmental Sciences, DHES, Cogswell Bldg., Helena, MT
Air Quality Bureau, DHES, Cogswell Bldg., Helena, MT
Howard Chambers, State Library, 920 E. Lyndale, Helena, MT

Gentlemen:

Pursuant to the Administrative Rules of Montana, Section 16-2.2(2)-P2030, Rule IV, the following Preliminary Environmental Review has been prepared by the Department of Health and Environmental Sciences concerning Park County Resource Recovery Plant, Livingston, Montana.

The purpose of the Preliminary Environmental Review is to inform all interested governmental agencies, public groups or individuals of the proposed action and to determine whether or not the action may have a significant effect on the human environment. This Preliminary Environmental Review will be circulated for a period of fifteen (15) days at which time a decision will be made as to our future action.

If you care to comment on this proposed action, please do so within the allotted time.

Sincerely,

Vic R. Andersen

VIC R. ANDERSEN
Solid Waste Management Bureau
Environmental Sciences Division

VRA:vc
Encls.

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PRELIMINARY ENVIRONMENTAL REVIEW

Division/Bureau Environmental Sciences Division/Solid Waste Management Bureau

Project or Application Park County Resource Recovery Plant

Description of Project Park County will construct an incinerator plant on BN property in Livingston to burn solid waste for heat recovery. The plant will process wastes from Park County, City of Livingston and Yellowstone National Park. Incineration will be inside a steel building in three modular type incineration units. Heat will be recovered in the form of steam which will be sold to BN for use in their facility at Livingston.

POTENTIAL IMPACT ON PHYSICAL ENVIRONMENT

	Major	Moderate	Minor	None	Unknown	Comments on Attached Pages
1. Terrestrial & aquatic life and habitats				X		
2. Water quality, quantity and distribution				X		
3. Geology & soil quality, stability and moisture				X		
4. Vegetation cover, quantity and quality				X		
5. Aesthetics			X			X
6. Air quality			X			X
7. Unique, endangered, fragile, or limited environmental resources				X		
8. Demands on environmental resources of land, water, air & energy		X				X
9. Historical and archaeological sites				X		

POTENTIAL IMPACTS ON HUMAN ENVIRONMENT

	Major	Moderate	Minor	None	Unknown	Comments on Attached Pages
1. Social structures and mores				X		
2. Cultural uniqueness and diversity				X		
3. Local and state tax base & tax revenue				X		
4. Agricultural or industrial production				X		
5. Human health			X			X
6. Quantity and distribution of community and personal income			X			X
7. Access to and quality of recreational and wilderness activities				X		
8. Quantity and distribution of employment			X			X
9. Distribution and density of population and housing				X		
10. Demands for government services			X			
11. Industrial & commercial activity				X		
12. Demands for energy		X				X
13. Locally adopted environmental plans & goals				X		
14. Transportation networks & traffic flows			X			X

Other groups or agencies contacted or which may have overlapping jurisdiction Air Quality Bureau

Individuals or groups contributing to this PER.

Recommendation concerning preparation of EIS No EIS Necessary

PER Prepared by: Vic R. Andersen
VIC R. ANDERSEN

Date: 9/16/81

DHES/ESD-2

POTENTIAL IMPACT ON PHYSICAL ENVIRONMENT

5. Aesthetics

The proposed plant will be enclosed in a 140' X 90' steel building. All dumping activity will be inside. The plant site was previously used as storage area for little used or unused machinery, vehicles and tramp metal. It was badly overgrown with grass and weeds. The proposed plant should improve the aesthetic appeal of the site.

6. Air Quality

The proposed plant must meet all federal and state air quality emission standards. Other incinerator plants of this type in the U.S. are meeting the standards and no problems are anticipated. There is expected to be a small steam plume that will be visible during periods of cold temperatures.

8. Demands on environmental resources of land, water, and energy

There will be a positive effect on land resources when this plant replaces the existing District landfill. The incinerator will reduce the volume of wastes by approximately 90%. The ash residue will still have to be disposed of in a landfill but it will consume considerably less land.

POTENTIAL IMPACTS ON HUMAN ENVIRONMENT

5. Human Health

Proper disposal of wastes will decrease the potential for adverse public health effects. Present disposal practices have encountered problems with high winds that sometimes prevented the wastes from being covered at the end of each day. In addition, wind blown litter was scattered downwind for several miles thus creating the increased potential for disease spread. The high temperatures reached by the proposed incineration units combined with the long residence time insures complete destruction of pathogens.

6. Quantity and distribution of community and personal income

All solid waste collection systems which are presently in use will continue. The proposed plant will require personnel be hired to operate it. This will slightly increase local employment and therefore have an effect on community income and distribution.

8. See #6

10. Demands for government services

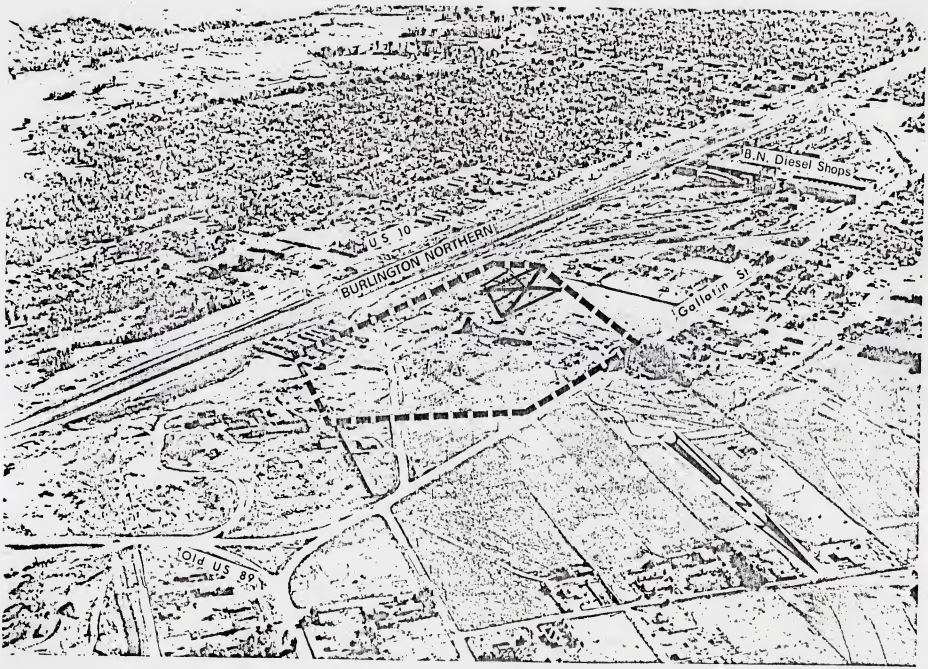
The increased regulatory inspection requirements imposed by the incinerator plant will be offset by the decreased inspectional needs at the landfill. In the initial stages of plant operation the Air Quality Bureau will have increased responsibilities to determine performance.

12. Demands for energy

The steam produced by the plant is to be sold to BN for their use. Under the steam sales agreement the incinerator facility will provide 100% of the BN steam needed during the summer months and then drop back to a secondary supplier status for the winter months. This will decrease the demand for natural gas which is the fuel presently used by BN to operate their steam plant. The anticipated net result will be a savings of natural gas as it is replaced by solid waste as an energy source.

14. Transportation networks and traffic flows

Traffic flows and networks will change as a result of the project. All collection vehicles and private individuals presently travel to the district landfill east of Livingston. After plant construction they will travel to the new site and this will increase vehicle traffic in the immediate area of the facility and decrease vehicle traffic on the traditional routes to the district landfill. The proximity of the incinerator site to the city center will mean the city residents and collection crews will save a considerable amount of transport time and fuel over the life of the facility. The county residents and district collection vehicles are not expected to result in any significant net savings because any savings realized by people who would reduce time and costs will be offset by people living in the other direction who will experience increased time and fuel costs.



107-70-BN NE to SW Livingston, Montana. 15 acres owned by BN. Property is located between the BN mainline and Gallatin Street.